

In the claims:

1. (currently amended) A method for collision detection, comprising the following steps:
 - providing a sensor;
 - connecting an output of the sensor to a threshold value decider;
 - transmitting an unfiltered output signal of the sensor (1) directly to a low pass filter and directly to a threshold value decider;
 - comparing the unfiltered signal without a wavelet transformation with a predetermined plausibility threshold; and
 - detecting a collision on the basis of the comparison and of the filtered signal.
2. (previously presented) The method of claim 1, wherein if the plausibility threshold is exceeded, a plausibility flag is set.
3. (previously presented) The method of claim 2, wherein the plausibility flag is transmitted to a processor (8).
4. (previously presented) The method of claim 2, wherein the plausibility flag is maintained for a predetermined length of time.
5. (previously presented) An apparatus for collision detection, comprising:

a sensor for outputting a signal;
a filter (3) that filters the signal, to which the sensor is directly connected;
a threshold value decider (2) for the unfiltered signal, to which the sensor is directly connected, so that the unfiltered signal is compared with a predetermined plausibility threshold without a wavelet transformation; and
a processor (8), wherein the processor detects a collision as a function of ~~an output signal of the threshold value decider (2)~~ the comparison and of the filtered signal.

6. (previously presented) The apparatus of claim 5, wherein the threshold value decider (2) is connected at its output to a hold element in such a way that the hold element keeps the output signal for a predetermined length of time.

7. (previously presented) The apparatus of claim 5, wherein the sensor (1) can be connected to a control unit (9), and the control unit (9) has the processor (8) and can be connected to restraint means (11).

8. (previously presented) The apparatus of claim 7, wherein the filter (3) and the hold element are disposed in the control unit (9).

9. (previously presented) The apparatus of claim 7, wherein the filter (3), the hold element, and a device for analog/digital conversion are disposed in a housing (12) together with the sensor (1).

10. (previously presented) The apparatus of claim 5, wherein the sensor
(1) is embodied as an acceleration sensor.